

Title (en)

A method of amplifying nucleic acid and a reagent therefor

Title (de)

Methode zur Amplifizierung von Nukleinsäure und entsprechende Reagenzien dafür

Title (fr)

Procédé pour l'amplification des séquences d'acides nucléiques et réactif utilisé dans ce but

Publication

EP 0745675 B1 20080702 (EN)

Application

EP 96108613 A 19960530

Priority

JP 13409695 A 19950531

Abstract (en)

[origin: EP0745675A2] An object of this invention is to provide an enzyme which amplifies nucleic acid with a high fidelity within a short reaction time and also to provide a method of amplification. This invention relates to a thermostable DNA polymerase having at least 30 bases/second of DNA extension rate and a 3'-5' exonuclease activity derived from an hyperthermophilic archaeon strain KOD1, to a method of amplifying and also of detecting the nucleic acid using said enzyme and to a reagent kit used for those methods.

IPC 8 full level

C12N 15/09 (2006.01); **C12N 15/54** (2006.01); **C12N 1/21** (2006.01); **C12N 9/12** (2006.01); **C12N 15/70** (2006.01); **C12P 21/02** (2006.01); **C12P 21/04** (2006.01); **C12Q 1/68** (2006.01); **G01N 33/53** (2006.01); **G01N 33/566** (2006.01); **C12R 1/01** (2006.01); **C12R 1/19** (2006.01)

CPC (source: EP US)

C12N 9/1252 (2013.01 - EP US); **C12Q 1/686** (2013.01 - EP US)

C-Set (source: EP US)

C12Q 1/686 + **C12Q 2521/101**

Cited by

EP1154017A1; CN101528919A; EP1452593A4; CN106754816A; CN102282257A; EP0822256A3; EP1548105A4; EP2388322A4; KR20140022962A; AU2010205133B2; US8026091B2; US6673578B1; US6673585B1; US8124391B2; US7422882B2; US8986968B2; WO2008046612A1; WO2009010251A3; WO0229016A3; WO9735988A1; WO9801567A3; US9243272B2; US10501813B2; US7384739B2; US8637288B2; US8962293B2; US9102924B2; US9738876B2; US10035993B2

Designated contracting state (EPC)

CH DE FR GB IT LI

DOCDB simple family (publication)

EP 0745675 A2 19961204; **EP 0745675 A3 19961227**; **EP 0745675 B1 20080702**; DE 69637579 D1 20080814; JP 3112148 B2 20001127; JP H08322597 A 19961210; US 6054301 A 20000425; US 6143536 A 20011107; US 6187573 B1 20010213

DOCDB simple family (application)

EP 96108613 A 19960530; DE 69637579 T 19960530; JP 13409695 A 19950531; US 36309599 A 19990730; US 65600596 A 19960524; US 7325998 A 19980506